

**ROCKY FLATS ENVIRONMENTAL
TECHNOLOGY SITE
EMD OPERATING
PROCEDURES MANUAL
VOLUME II: GROUNDWATER**

**Manual No.: 5-21000-OPS-GW
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Organization: Environmental Management**

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

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GROUNDWATER SAMPLING

**EG&G ROCKY FLATS PLANT
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**Refer to 1-A01-PPG-001 for Processing Instructions.
Print or Type All Information (Except Signatures).**

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Upon completion of purging, VOC samples will be collected first. Sampling should be done as soon as possible after the well has been evacuated. If VOCs are to be collected by a method other than that used for purging (i.e., displacement or peristaltic pump), then all other samples will be collected prior to removing the pump from the well.

For wells that dewater, ~~the well will be allowed to recover 50 percent of its original volume before the start of sampling. If a well will not recover 50 percent within 24 hours after dewatering, the VOC sample will be collected when a sufficient volume of water has accumulated for VOC sample collection. The calculation for recovery will be performed as described in Subsection 5.6.1. However, 50 percent recovery will be used instead of 90 percent.~~ if a sufficient volume of water for VOC sample collection has still not accumulated within 24 hours after the completion of purging, VOCs will not be collected for that well.

The containers used for sample collection from poor producing wells may differ from those used for high yield wells in some instances due to constraints on obtaining enough sample to fill sample containers. In some instances smaller containers may be utilized, or chemical parameters normally collected in separate containers may be combined into a single container. Well histories can be used to identify which wells may require the modified sample suite. These wells will be sampled for a maximum of ~~32~~ 48 hours after the completion of purging, with the exception of VOC sample collection discussed in the previous paragraph. The completion of purging will be considered 0 hour. At the end of ~~32~~ 48 hours, partial samples will be measured. ~~If a well is purged in the a.m. on day one, then the well can be sampled anytime the next day.~~ Accumulated sample will be compared to the minimum volume requirements identified in Table GW.6-1. If the minimum volume requirement for the target parameter has not been achieved, the partial sample and bottle will be disposed. This volume may be less than the typical volume collected. All parameters which have only minimum samples volumes collected and all uncollected parameters will be documented.

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number of field activity daily log sheets used to record media team activities for a given day will also be included.

~~The Groundwater Levels Measurement/Calculations Form (see SOP GW.1, Water Level Measurements in Wells and Piezometers) and The Chain of Custody Record (see SOP FO.13, Containerizing, Preserving, Handling, and Shipping of Soil and Water Samples) will also be completed for each site. All blank fields on the forms must be completed or voided.~~

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